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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/080,682	02/25/2002	Veronique Henriot	612.41243X00	4685
20457	7590 06/30/2004		EXAMINER	
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800			SINES, BRIAN J	
			ART UNIT	PAPER NUMBER
ARLINGTON	ARLINGTON, VA 22209-9889		1743	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/080,682	HENRIOT ET AL.
Office Action Summary	Examiner	Art Unit
	Brian J. Sines	1743
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet w	vith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a re If NO period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may a ply within the statutory minimum of thi d will apply and will expire SIX (6) MOte. cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication.
Status		
1) Responsive to communication(s) filed on 4/13	<u>3/2004</u> .	·
	is action is non-final.	
3) Since this application is in condition for allows		
closed in accordance with the practice under	Ex parte Quayle, 1935 C.[D. 11, 453 O.G. 213.
Disposition of Claims		
4) Claim(s) 3-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 3-7 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.	
Application Papers		
9)☐ The specification is objected to by the Examin	er.	
10) The drawing(s) filed on is/are: a) ac	cepted or b) objected to	by the Examiner.
Applicant may not request that any objection to the	e drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correct		, ,
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attache	d Office Action or form PTO-152.
riority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat* See the attached detailed Office action for a list	nts have been received. Its have been received in A prity documents have been au (PCT Rule 17.2(a)).	Application No received in this National Stage
ttachment(s) Notice of References Cited (PTO-892)		Summary (PTO-413) s)/Mail Date
 ✓ Notice of Draftsperson's Patent Drawing Review (PTO-948) ✓ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 		nformal Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 3 – 7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Regarding claims 6 and 7, these claims recite a method for the continuous detection of thermodynamic hydrate formation conditions. However, the method fails to recite a specific method step regarding the detection or measuring of these conditions or physical parameters, which permit the determination or calculation of these thermodynamic hydrate formation conditions. Is the hydrate dissociation temperature determined by a measurement detection or calculation? What physical parameters are required to be measured so that the hydrate dissociation temperature may be determined using this method? How are these physical parameters measured? Furthermore, how is the particular lumping or grouping of the petroleum fluids carried out in order to isolate the hydrate forming components? How is the data relative to each of the particular fractions applied to each of the modules in order to determine at any point in the pipe the hydrate dissociation temperature? How does the control device compare the temperature of the petroleum fluids with the determined hydrate dissociation temperature? How does the control device known when to apply the measures intended to fight hydrate formation? What are the measures intended to fight hydrate formation? Is the temperature controlled and manipulated to control hydrate formation or is an additive added? Regarding claim 4, claim 4 is dependent upon claim 8 that is not present.

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Allowable Subject Matter

Claims 3 – 7 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

The following is an examiner's statement of reasons for allowance:

The cited prior art neither teach or fairly suggest a method intended for the continuous detection of thermodynamic hydrate formation conditions within a pipeline using a mechanistic hydrodynamic module and an integrated compositional thermodynamic module, as recited in claim 6, and including the application of measures intended to mitigate or eliminate hydrate formation, as recited in claim 7.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

Applicant's arguments filed 1/18/2004 have been fully considered but they are not persuasive.

Applicants have failed to particularly point out and distinctly claim the subject matter which they regard as their invention. The applicant is advised that although the essential purpose of the examination process is to determine whether or not the claims define an invention that is both novel and nonobvious over the prior art, another essential purpose of patent examination is to determine whether or not the claims are precise, clear, correct, and unambiguous (see MPEP § 2171 & 2173.02). Although there is no pending rejection over the prior art, it appears that

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features, such as those features discussed above, which are pertinent to the proper carrying out of the claimed methodology, which are taught as critical in the specification, should be recited in the claims (see MPEP § 2164.08(c)).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Sines, Ph.D. whose telephone number is (571) 272-1263. The examiner can normally be reached on Monday - Friday (11:30 AM - 8 PM EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (571) 272-1267. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/ Juli Warden
Supervisory Patent Examiner
Technology Center 1700